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Mr. James Saric
Remedial Project Manager
USEPA Region 5
77 West Jackson Boulevard (SR-6J)
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Subject:
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam
Area 2 – Plainwell Dam to Otsego City Dam (Otsego City Impoundment)
Area 3 – Otsego City Dam to Otsego Dam (Former Otsego Impoundment)
June 2012

SEDIMENTS

Date:
July 13, 2012

Contact:
Michael J. Erickson, P.E.

Phone:
810.225.1924

Email:
michael.erickson@arcadis-us.com

Our ref:
B0064539.0003.00014 #2

Dear Jim:

Attached is the 64th monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Supplemental Remedial Investigation/ Feasibility Study (SRI/FS). This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7.1 of the associated Statement of Work (SOW). If you have any questions, please do not hesitate to contact me.

Sincerely,

ARCADIS

Michael J. Erickson, P.E.
Vice President

Attachments

Copies:
Michael Berkoff, USEPA
Sam Borries, USEPA
Paul Bucholtz, MDEQ
Sharon Hanshue, MDNR
Jeff Keiser, CH2M HILL
Todd Goeks, NOAA
Jessica Winter, NOAA
Richard Gay, Weyerhaeuser Company
Martin Lebo, Ph.D., Weyerhaeuser Company
Kathy Huibregtse, ENVIRON
Garry Griffith, P.E., Georgia-Pacific LLC

MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/ KALAMAZOO RIVER SUPERFUND SITE SRI/FS
AREA 1 (MORROW DAM TO PLAINWELL DAM)
AREA 2 (PLAINWELL DAM TO OTSEGO CITY DAM – OTSEGO CITY IMPOUNDMENT)
AREA 3 (OTSEGO CITY DAM TO OTSEGO DAM – OTSEGO IMPOUNDMENT)

REPORT #64, JUNE 2012

PREPARED BY ARCADIS
JULY 13, 2012

ON BEHALF OF GEORGIA-PACIFIC LLC

SUBMITTED TO

JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Monthly Progress Report for the Allied Paper, Inc./Portage Creek/ Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, and 3

REPORT #64, JUNE 2012

Significant Developments and Activities during the Period, Including Actions Undertaken Pursuant to the AOC and SOW

- On June 1, ARCADIS submitted an Area 3 Proposed Reconnaissance Plan and Preliminary Sampling Design to the United States Environmental Protection Agency (USEPA).

- On June 8, USEPA notified ARCADIS that it would issue no further comments for the Former Plainwell Impoundment and Plainwell No. 2 Dam Area 2011 Bank Conditions Monitoring Report. ARCADIS received comments from the Michigan Department of Environmental Quality (MDEQ) on May 11.

- On June 14, ARCADIS transmitted to USEPA and MDEQ the draft Area 2 SRI Report outline, draft Area 1 Feasibility Study (FS) Report outline, and a draft agenda for the meeting scheduled for July 23.

- On June 14, representatives of Georgia-Pacific LLC (Georgia-Pacific), ARCADIS, USEPA, and MDEQ participated in a conference call to prepare for the upcoming Area 2 SRI and Area 1 FS meeting scheduled for July 23.

- On June 14, ARCADIS provided USEPA with supplemental details for the Area 3 Proposed Reconnaissance Plan and requested approval of the document.

- On June 14, Georgia-Pacific submitted a letter to USEPA confirming ARCADIS' insurance coverage amounts.

- On June 15, ARCADIS provided USEPA with approval for an extension to the site-wide Freedom of Information Act (FOIA) document request and fee commitment.

- On June 25, Georgia-Pacific made a partial payment to USEPA regarding the April 12, 2012 cost recovery package for Operable Unit 5.

- On June 26, USEPA provided to ARCADIS approval of the Area 3 Proposed Reconnaissance Plan.

- On June 27, USEPA provided to ARCADIS conditional approval of the revised Area 1 SRI Report and comments.

- On June 29, USEPA provided to Georgia-Pacific written confirmation that ARCADIS' one-time submittal of the requisite insurance certificate complies with paragraph 92 of the AOC.

- Georgia-Pacific awaits the following:

  - MDEQ's comments on the revised Area 1 SRI Report

  - USEPA's comments on the Area 1 Alternatives Screening Technical Memorandum (Area 1 ASTM)

  - USEPA's backup regarding CH2M HILL charges in the April 12, 2012 cost recovery package for Operable Unit 5

Monthly Progress Report for the Allied Paper, Inc./Portage Creek/ Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, and 3

REPORT #64, JUNE 2012

Data Collected and Field Activities Conducted during the Period

- During the week of June 4, ARCADIS performed additional supplemental soil and sediment sampling in the Otsego City Impoundment (Area 2) with oversight by representatives of USEPA and MDEQ (Table 1). Detailed core descriptions for collected cores are provided in Table 2. Samples were submitted to TestAmerica Laboratories, Inc. (TestAmerica) for PCB, grain size, and total organic carbon (TOC) analyses (Table 3). Samples placed in archive are summarized in Table 4.

- During the week of June 25, ARCADIS performed floodplain and sediment reconnaissance activities in the Former Otsego Impoundment (Area 3) with oversight by representatives of USEPA and MDEQ. Tables 5 through 7 summarize the data collected in Area 3.

Laboratory Data Received during the Period

- In June, ARCADIS received analytical results from TestAmerica for additional supplemental soil and sediment sampling in Area 2 submitted for PCB, grain size, and TOC analyses in June. Table 8 lists the sample analytical results received from TestAmerica in June by sample delivery group (SDG).

- ARCADIS awaits the long-term monitoring fish tissue PCB concentration data for sampling conducted in fall 2011 (scheduled to be received in summer 2012) from MDEQ.

Problems

- None.

Actions Taken to Correct Problems

- No problems.

Developments Anticipated during the Next Two Reporting Periods

- On July 2, ARCADIS, Georgia-Pacific, USEPA, and MDEQ are scheduled to participate in a conference call to discuss initial comments on the Area 1 ASTM.

- During the week of July 9, ARCADIS is scheduled to complete sediment reconnaissance in Area 3.

- On July 23, ARCADIS anticipates holding a meeting with USEPA and MDEQ in Detroit for preliminary planning of the Area 1 FS and the Area 2 SRI. Prior to the meeting USEPA is scheduled to provide draft written comments on the Area 1 ASTM. During this meeting, ARCADIS anticipates sharing data from the most recent Area 2 non-PCB analyses and the supplemental soil and sediment PCB sampling data. Draft slides outlining the key approach elements to the Area 2 SRI will be provided prior to the meeting.

- In July or August, ARCADIS anticipates receiving USEPA's comments on the Area 1 ASTM.

- In July or August, Georgia-Pacific anticipates a response from USEPA regarding the CH2M HILL charges in the April 12, 2012 OU 5 cost recovery package.

- During the week of August 6, ARCADIS anticipates submitting the Draft 2012 Plainwell Bank Conditions Monitoring Report to USEPA.

- On August 15, ARCADIS is scheduled to submit the semi-annual progress report to USEPA.

- By August 27, ARCADIS is scheduled to submit the final Area 1 SRI Report and associated responses to comments to USEPA.

- In August, ARCADIS, Georgia-Pacific, USEPA MDNR, MDEQ, USFWS, and NOAA are scheduled to participate in the annual site walk of the Former Plainwell Impoundment and Plainwell No. 2 Dam Area Time-Critical Removal Action areas.

- In August, ARCADIS anticipates submitting the Area 3 Field Sampling Plan to USEPA and MDEQ. This is ahead of the 60-day time period from end of reconnaissance activities provided for in the Area 3 SRI/FS Work Plan.

- The validated analytical data received in May will be included in the July monthly report. These data include the non-PCB analytical results for the archived Area 2 soil and sediment samples.

- The validated analytical data received in June will be included in the August monthly report. These data include the PCB analytical results for the supplemental soil and sediment samples from Area 2.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #64, June 2012

Table 1 - Area 2/Otsego City Impoundment 2012 Supplemental Investigation - Locations

Date Collected	Location	Date Processed	Time	Method	Matrix	Water Depth (feet)	Penetration Depth (feet)	Recovery Depth (feet)
6/5/2012	OCISED-104	6/7/2012	1740	3" Lexan	Sediment	0.6	6.8	6.4
	OCISED-106	6/7/2012	1430	3" Lexan	Sediment	1.4	5.1	4.4
	OCISED-107	6/7/2012	1445	3" Lexan	Sediment	2.6	3.8	2.9
	OCISED-108	6/7/2012	1710	3" Lexan	Sediment	3.3	3.8	3.3
	OCISED-109	6/7/2012	1335	3" Lexan	Sediment	0.3	5.1	5.1
	OCISED-110	6/7/2012	1700	3" Lexan	Sediment	2.4	4.3	3.3
	OCISED-111	6/7/2012	1315	3" Lexan	Sediment	2.8	4	3.5
	OCISED-115	6/7/2012	1120	3" Lexan	Sediment	0	4.1	2.6
	OCISED-116	6/7/2012	1145	3" Lexan	Sediment	0.1	5.7	5.3
	OCIFP-145	6/7/2012	930	3" Lexan	Soil	NA	4.5	3.7
	OCIFP-147	6/7/2012	1540	3" Lexan	Soil	NA	4.6	3.5
	OCIFP-148	6/7/2012	1400	3" Lexan	Soil	NA	6.8	5.8
	OCIFP-149	6/7/2012	1615	3" Lexan	Soil	NA	6.1	4.6
	OCIFP-150	6/7/2012	1230	3" Lexan	Soil	NA	4.2	3
	OCIFP-152	6/7/2012	956	3" Lexan	Soil	NA	5.2	4.2
	OCIFP-153	6/7/2012	915	3" Lexan	Soil	NA	6.3	5.1
	OCIFP-154	6/7/2012	1100	3" Lexan	Soil	NA	4.2	3.5
6/6/2012	OCIFP-135	6/8/2012	1800	3" Lexan	Soil	NA	6.2	5.3
	OCIFP-136	6/8/2012	1730	3" Lexan	Soil	NA	6	5
	OCIFP-137	6/8/2012	1530	3" Lexan	Soil	NA	3.4	3
	OCIFP-138	6/8/2012	1500	3" Lexan	Soil	NA	6.2	5.6
	OCIFP-139	6/8/2012	1640	3" Lexan	Soil	NA	4.4	3.9
	OCIFP-140	6/8/2012	1615	3" Lexan	Soil	NA	3.8	3.6
	OCIFP-141	6/8/2012	1430	3" Lexan	Soil	NA	6.3	5.7
	OCIFP-142	6/8/2012	1330	3" Lexan	Soil	NA	6.4	6.1
	OCIFP-143	6/8/2012	1400	3" Lexan	Soil	NA	6.8	5.9
	OCIFP-144	6/8/2012	1145	3" Lexan	Soil	NA	6.3	4.7
	OCIFP-146	6/8/2012	1115	3" Lexan	Soil	NA	6.4	5.1
	OCIFP-151	6/8/2012	950	3" Lexan	Soil	NA	3.8	3.8
	OCISED-105	6/8/2012	1700	3" Lexan	Sediment	0.4	4.4	3.5
	OCISED-112	6/8/2012	845	3" Lexan	Sediment	0.7	4.5	4
	OCISED-113	6/8/2012	1020	3" Lexan	Sediment	2.2	1.1	0.7
	OCISED-114	6/8/2012	915	3" Lexan	Sediment	1.3	2	1.7

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #64, June 2012

Table 2 - Area 2/Otsego City Impoundment 2012 Supplemental Investigation - Core Descriptions

Date Processed	Location	Date Collected	Matrix	Depth (inches)	Description
6/7/2012	OCISED-104	6/5/2012	Sediment	0 - 7	dark brown silty sand, some organics (leaves, twigs, roots)
				7 - 37	dark grey brown clayey silt, trace small pebbles, trace fine to coarse sand, odor
				37 - 60	brown fine to coarse sand, little granules, trace organics (shells) with seams - 45-46" dark brown clayey silt seam, some sand; 53-54" dark brown clayey silt seam, some sand; 57-60" brown coarse sand, trace organics (shells)
				60 - 72	brown fine sand, trace organics (shells, roots); seam at 60-61" dark brown fine sand, some organics (shells, twigs, roots); seam 64" dark brown fine sand, some organics (shells, twigs, roots)
				72 - 77	dark brown fine to medium sand, trace silt, trace granules, trace organics (twigs)
	OCISED-106	6/5/2012	Sediment	0 - 15	brown coarse sand, some granules, little organics (twigs, shells)
				15 - 53	dark grey brown clayey silt, trace fine sand, trace organics (40-53") (twigs), trace granules (52-53"), odor
	OCISED-107	6/5/2012	Sediment	0 - 4	brown coarse sand, small granules, trace organics (twigs, shells)
				4 - 12	dark brown clayey silt, trace organics (twigs), 1" seam (4-5") of brown black medium sand, trace organics (roots); 8.5-10.5" seam clayey silt, trace organics (roots)
				12 - 19	grey clayey silt, trace organics (twigs), trace granules
				19 - 35	dark brown silty clay, little fine sand, trace organics (twigs, shells)
	OCISED-108	6/5/2012	Sediment	0 - 4	brown fine to medium sand, some organics (rootlets, leaves)
				4 - 18	brown fine to coarse sand, little granules, little organics (shells), trace organics (roots)
				18 - 22	dark brown fine silty sand, organics (wood, leaves), trace pebbles
				22 - 33	brown fine to medium sand, trace pebbles, trace organics (shells)
				33 - 40	brown medium to coarse sand, little organics (shells), trace pebbles; seam 33-34" dark brown silty clay
	OCISED-109	6/5/2012	Sediment	0 - 6	dark brown sandy silt, some organics (leaves, twigs, shells), little granules
				6 - 24	brown medium to very coarse sand, little granules, trace organics (shells)
				24 - 36	brown fine to medium sand, trace organics (shells)
				36 - 44	dark brown silty very fine to medium sand, trace organics (roots)
				44 - 48	dark brown silty clay, some fine sand, little organics (leaves, roots)
				48 - 61	dark brown fine to medium sand, little organics (wood, roots, leaves); seam 51-52" dark grey silty clay, little fine sand, odor; seam 60-61" coarse granules, trace organics (roots)
	OCISED-110	6/5/2012	Sediment	0 - 2	brown coarse to very coarse sand, little pebbles, little organics (shells, roots)
				2 - 12	dark brown clayey silt, trace pebbles, trace organics (roots)
				12 - 40	dark brown clayey silt, little fine sands, trace organics (shells), piece of wood (37-39")

Table 2 - Area 2/Otsego City Impoundment 2012 Supplemental Investigation - Core Descriptions

Date Processed	Location	Date Collected	Matrix	Depth (inches)	Description
6/7/2012 (Cont.)	OCISED-111	6/5/2012	Sediment	0 - 8	light brown fine to medium sand, some very coarse sand, trace organics (shells, roots)
				8 - 20	dark brown coarse to very coarse sand, some granules, little organics (shells)
				20 - 29	dark grey to black silty clay, odor
				29 - 42	dark brown fine to coarse sand, little organics (shells, twigs)
	OCISED-115	6/5/2012	Sediment	0 - 2	dark brown to black silt with organics
				2 - 8	dark brown silt with organics (roots, leaves)
				8 - 31	dark grey brown clayey silt, little organics (twigs, roots, leaves, trace pebbles)
	OCISED-116	6/5/2012	Sediment	0 - 12	brown fine to medium sand, some silt, some organics (twigs, leaves, wood)
				12 - 48	dark grey brown clayey silt, trace organics (twigs), odor
				48 - 64	dark brown fine to medium sand, trace pebbles, trace granules, 59-64" seam with some organics (leaves, twigs, wood)
	OCIFP-145	6/5/2012	Soil	0 - 3	dark brown silt with organics (leaves, roots)
				3 - 7	brown fine to coarse sand, trace granules, trace organics (shells, rootlets)
				7 - 24	dark grey brown clayey silt, trace organics (wood, roots), odor
				24 - 34	dark brown clayey silt, trace coarse sand, trace organics (roots); seam 24-25" dark brown to black fine to medium sand
				34 - 42	brown to grey coarse to very coarse sand, some pebbles, trace large pebbles, trace organics (shells)
				42 - 44.5	very fine to fine sand, some silt, trace coarse sand
	OCIFP-147	6/5/2012	Soil	0 - 12	brown clayey silt, trace wood, trace organics (rootlets)
				12 - 20	dark grey brown very fine sand with silt, trace organics (rootlets)
				20 - 24	dark brown black clayey silt, some fine sand, trace organics (rootlets)
				24 - 33	dark brown black clayey silt, trace coarse sand
				33 - 42	grey brown fine to medium sand, trace small pebbles, trace silt
	OCIFP-148	6/5/2012	Soil	0 - 2	dark brown fine sand, some organics (roots, shells), trace coarse sand
				2 - 19	brown fine to very coarse sand, little organics (shells, rootlets)
				19 - 34	brown grey to dark brown coarse to very coarse sands, little small pebbles, trace organics (shells)
				34 - 48	dark grey to black medium to very coarse sand, little granules, odor
				48 - 62	black medium to very coarse sand, trace granules, trace organics (shells), odor
				62 - 70	black very fine to medium sand, little silt, little organics (roots, shells)
	OCIFP-149	6/5/2012	Soil	0 - 15	dark brown silty clay, trace fine sand, little organics (roots, wood)
				15 - 38	dark brown to black clayey silt, trace coarse sand, trace organics (roots)
				38 - 46	grey brown sandy silt, little clay, trace coarse sand
				46 - 55	grey brown silty very fine to fine sand, trace coarse sand, trace organics (wood, roots)

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #64, June 2012

Table 2 - Area 2/Otsego City Impoundment 2012 Supplemental Investigation - Core Descriptions

Date Processed	Location	Date Collected	Matrix	Depth (inches)	Description
6/7/2012 (Cont.)	OCIFP-150	6/5/2012	Soil	0 - 12	grey brown silty clay, little organics (roots), trace small pebbles
				12 - 16	brown to dark brown clayey silt, trace organics (rootlets)
				16 - 28	dark brown to black silty clay, trace organics (wood, roots)
				28 - 36	dark brown very fine to medium sand, little silt, trace coarse sand
	OCIFP-152	6/5/2012	Soil	0 - 7	dark brown sandy clay, little organics (roots, worm)
				7 - 9	light brown very fine to medium sand, little organics (roots, rootlets)
				9 - 20	dark brown sandy silt, some clay, trace organics (rootlets), trace coarse sand
				20 - 25	red brown very fine to medium sand, trace coarse sand
				25 - 50.5	dark grey grading to black clayey silt, trace fine sand, trace organics (roots), odor
	OCIFP-153	6/5/2012	Soil	0 - 12	dark brown sandy silt, some clay, trace organics (wood, roots)
				12 - 50	black sandy silt, trace organics (roots), odor; dark grey seam 23-34"
				50 - 57	grey brown very fine to coarse sand, little small pebbles, trace large pebbles
				57 - 61	red brown medium to very coarse sand , trace organics (shells), trace small pebbles, trace large pebbles
	OCIFP-154	6/5/2012	Soil	0 - 9	grey brown silty clay, trace organics (roots, wood)
				9 - 27	dark brown silty clay, trace organics (rootlets, wood)
				27 - 33	dark brown sandy silt, odor, trace organics (roots)
				33 - 42	grey brown very fine to coarse sand, some clay, little silt, trace organics (roots)
6/8/2012	OCISED-105	6/6/2012	Sediment	0 - 21	dark grey olive sandy silt, little organics (leaves, wood)
				21 - 42	dark brown silt with organics (wood, roots), trace small and large pebbles, trace fine sand
	OCISED-112	6/6/2012	Sediment	0 - 21	grey brown very fine to coarse sand, little granules, trace organics (roots, shells)
				21 - 27	dark brown black silty clay, trace organics (wood), odor
				27 - 41	dark brown clayey silt, little fine sand, trace large pebbles, trace organics (wood, leaves shells, roots), odor
				41 - 48	dark brown fine to medium sand, little large pebbles, trace small pebbles, trace organics (wood, roots)
	OCISED-113	6/6/2012	Sediment	0 - 4	brown fine to very coarse sand with small and large pebbles, some granules, trace organics (shells, roots)
				4 - 8.4	grey fine to coarse sand, 3" concretion, trace organics (shells)
	OCISED-114	6/6/2012	Sediment	0 - 8	brown grading to dark brown very fine to very coarse sand, little granules, trace small pebbles, trace organics (shells, roots)
				8 - 17	dark grey black sandy silt, little clay, trace organics (wood, roots, leaves), odor
				17 - 20	dark brown very fine to medium sand, trace granules, trace small pebbles, trace organics (roots)
	OCIFP-135	6/6/2012	Soil	0 - 12	dark brown fine to medium sand, little organics (roots, wood)
				12 - 24	grey silty clay, trace organics (roots)
				24 - 59	black clayey silt, trace fine sand
				59 - 64	dark brown clayey silt, little fine sand, trace organics (rootlets)

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #64, June 2012

Table 2 - Area 2/Otsego City Impoundment 2012 Supplemental Investigation - Core Descriptions

Date Processed	Location	Date Collected	Matrix	Depth (inches)	Description
6/8/2012 (Cont.)	OCIFP-136	6/6/2012	Soil	0 - 7	dark brown fine to medium grain sand, little silt, trace organics (roots)
				7 - 14	brown grading to black fine to coarse sand, trace organics (roots, wood)
				14 - 36	dark grey grading to black sandy silt, trace organics (roots), odor
				36 - 50	black clayey silt, trace organics (wood, shells)
				50 - 60	dark brown clayey silt, little fine sand, little organics (rootlets)
	OCIFP-137	6/6/2012	Soil	0 - 5	dark brown fine to medium sand, trace silt, little organics (rootlets, wood)
				5 - 17	red brown very fine to coarse sand, trace silt, trace organics (rootlets, wood)
				17 - 28	dark grey clayey silt, little organics (rootlets, leaves, wood)
				28 - 34	dark brown black clayey silt, trace fine sand, trace organics (rootlets)
				34 - 36	brown very fine to medium sand, trace small pebbles, trace organics (rootlets)
	OCIFP-138	6/6/2012	Soil	0 - 4	dark brown very fine to coarse sand, little organics (rootlets)
				4 - 31	red brown grading to grey brown fine to coarse sand, trace silt, trace clay, trace organics (wood, roots)
				31 - 52	black clayey silt, trace organics (leaves, roots), odor
				52 - 67	dark grey brown fine to coarse sand, trace organics (shells, leaves); 59-61" seam dark grey silty clay, odor
	OCIFP-139	6/6/2012	Soil	0 - 7	dark brown black clayey silt, trace fine sand, trace organics (rootlets, shells)
				7 - 25	black clayey silt, trace organics (wood, rootlets)
				25 - 33	black grading to grey silty clay, little fine sand, little wood seam (26-27"), trace organics (wood)
				33 - 41	grey sandy clay, trace small pebbles, trace coarse sand, trace organics (wood)
				41 - 47	dark grey brown sandy clay, little silt, trace organics (wood, shells)
	OCIFP-140	6/6/2012	Soil	0 - 7	dark brown silty clay, trace fine sand, little organics (rootlets)
				7 - 20	brown grading to dark grey very fine to very coarse sand, poorly graded, small pebbles, trace organics (rootlets, shells)
				20 - 34	dark grey black clayey silt, trace fine sand, odor
				34 - 43	dark grey brown silty clay, trace organics (rootlets)
	OCIFP-141	6/6/2012	Soil	0 - 4	brown fine sand, trace coarse sand, trace granules, trace organics (rootlets, grass, leaves)
				4 - 29	grey brown medium fine to very coarse sand, poorly graded, trace organics (shells, wood, rootlets, grass)
				29 - 57	dark grey black clayey silt, trace fine sand, odor
				57 - 61	dark brown silty clay
				61 - 68	medium grey silty clay, trace organics (shells, wood)

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #64, June 2012

Table 2 - Area 2/Otsego City Impoundment 2012 Supplemental Investigation - Core Descriptions

Date Processed	Location	Date Collected	Matrix	Depth (inches)	Description
6/8/2012 (Cont.)	OCIFP-142	6/6/2012	Soil	0 - 8	dark brown clayey silt, trace fine sand, trace organics (roots, wood)
				8 - 36	brown grading to grey to black fine to very coarse sand, little granules, trace small pebbles, trace organics (rootlets)
				36 - 58	dark grey black silty clay, trace fine sand, trace organics (shells, rootlets), odor
				58 - 73	dark brown silty clay, trace organics (rootlets, shells)
	OCIFP-143	6/6/2012	Soil	0 - 4	dark brown clayey very fine to medium sand, little organics (wood, roots)
				4 - 29	brown grading to grey brown very fine to coarse sand, poorly sorted, trace organics (roots, shells)
				29 - 48	dark brown black clayey silt, trace fine sand, trace organics (wood), odor
				48 - 60	dark olive brown clayey silt, trace organics (wood, rootlets, shells)
				60 - 67	olive grey silty clay, trace coarse sand, trace organics (shells)
				67 - 71	dark brown clayey silt, little fine sand, trace organics (rootlets)
	OCIFP-144	6/6/2012	Soil	0 - 36	dark olive brown grading to dark brown clayey silt, some organics (roots, rootlets, wood)
				36 - 42	medium grey grading to dark grey sandy silt, trace organics (rootlets, wood)
				42 - 49	reddish brown clayey silt, little organics (wood)
				49 - 51	dark grey very fine to very coarse sand, trace small pebbles, trace silt
				51 - 54	dark brown sandy silt, little medium to coarse sand, trace organics (wood)
				54 - 56	light brown fine to very coarse sand, trace small pebbles, trace large pebbles
	OCIFP-146	6/6/2012	Soil	0 - 24	olive brown clayey silt, little fine sand, trace organics (wood, roots)
				24 - 43	dark grey brown grading to black very fine to coarse sand, trace coarse sand, trace organics (shells, rootlets)
				43 - 61	dark grey brown sandy clay, some silt, trace organics (roots, leaves)
	OCIFP-151	6/6/2012	Soil	0 - 10	dark brown sandy clay, some silt, trace coarse sand, little organics (roots)
				10 - 28	brown very fine to coarse sand, poorly graded, trace organics (shells, roots)
				28 - 46	dark grey brown very fine to medium sand, little silt, trace clay, trace organics (leaves, wood, roots, trace small pebbles); seam at 42-43", dark grey to black silty clay, odor

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Location	Sample Interval (inches)	Sample ID	Duplicated Sample ID	MS/MSD	Analysis
Sediment					
OCISED-107	0 - 2	K57529			PCB, TOC, Grain Size
	2 - 6	K57530			PCB
	6 - 12	K57531			PCB
	12 - 24	K57532			PCB
	24 - 35	K57533			PCB
OCISED-106	0 - 2	K57534			PCB, TOC, Grain Size
	2 - 6	K57535			PCB
	6 - 12	K57536			PCB
	12 - 16	K57537			PCB
	16 - 24	K57538			PCB
	24 - 36	K57539			PCB
	36 - 48	K57540			PCB
	48 - 53	K57541			PCB
OCISED-110	0 - 2	K57542			PCB, TOC, Grain Size
	2 - 6	K57543			PCB
	6 - 12	K57544			PCB
	12 - 24	K57545			PCB
	24 - 36	K57546			PCB
	36 - 40	K57547			PCB
OCISED-104	0 - 2	K57548			PCB, TOC, Grain Size
	2 - 6	K57549			PCB
	6 - 12	K57550			PCB
	12 - 24	K57551			PCB
	24 - 37	K57552			PCB
	37 - 48	K57553			PCB
	48 - 60	K57554			PCB
	60 - 72	K57555			PCB
	72 - 77	K57556			PCB
OCISED-116	0 - 2	K57557			PCB, TOC, Grain Size
	2 - 6	K57558			PCB
	6 - 12	K57559			PCB
	12 - 24	K57560			PCB
	24 - 36	K57561			PCB
	24 - 36	K57562	K57561		PCB
	36 - 48	K57563			PCB
	48 - 60	K57564		X	PCB
	60 - 64	K57565			PCB
OCISED-109	0 - 2	K57566			PCB, TOC, Grain Size
	2 - 6	K57567			PCB
	6 - 12	K57568			PCB
	6 - 12	K57569	K57568		PCB
	12 - 24	K57570		X	PCB
	24 - 36	K57571			PCB
	36 - 48	K57572			PCB
	48 - 61	K57573			PCB

See Notes on Page 5.

Table 3 - Area 2/Otsego City Impoundment 2012 Supplemental Investigation - Sample Information

Location	Sample Interval (inches)	Sample ID	Duplicated Sample ID	MS/MSD	Analysis
Sediment (Cont.)					
OCISED-108	0 - 2	K57574			PCB, TOC, Grain Size
	2 - 6	K57575			PCB
	6 - 12	K57576			PCB
	12 - 17	K57577			PCB
	17 - 21	K57578			PCB
	21 - 24	K57579			PCB
	24 - 36	K57580			PCB
	36 - 40	K57581			PCB
OCISED-111	0 - 2	K57582			PCB, TOC, Grain Size
	2 - 8	K57583			PCB
	8 - 12	K57584			PCB
	12 - 20	K57585			PCB
	12 - 20	K57586	K57585		PCB
	20 - 24	K57587			PCB
	24 - 28	K57588			PCB
	28 - 36	K57589		X	PCB
	36 - 42	K57590			PCB
OCISED-115	0 - 2	K57591			PCB, TOC, Grain Size
	2 - 8	K57592			PCB
	8 - 12	K57593			PCB
	12 - 24	K57594			PCB
	24 - 31	K57595			PCB
OCISED-105	0 - 2	K57596			PCB, TOC, Grain Size
	2 - 6	K57597			PCB
	6 - 12	K57598			PCB
	12 - 20	K57599			PCB
	20 - 24	K57600			PCB
	24 - 36	K57601			PCB
	36 - 42	K57602			PCB
OCISED-112	0 - 2	K57603			PCB, TOC, Grain Size
	2 - 6	K57604			PCB
	6 - 12	K57605			PCB
	12 - 21	K57606			PCB
	21 - 24	K57607			PCB
	24 - 28	K57608			PCB
	28 - 36	K57609			PCB
	36 - 43	K57610			PCB
	43 - 48	K57611			PCB
OCISED-113	0 - 2	K57612			PCB, TOC, Grain Size
	2 - 6	K57613			PCB
	6 - 8.4	K57614			PCB

See Notes on Page 5.

Table 3 - Area 2/Otsego City Impoundment 2012 Supplemental Investigation - Sample Information

Location	Sample Interval (inches)	Sample ID	Duplicated Sample ID	MS/MSD	Analysis
Sediment (Cont.)					
OCISED-114	0 - 2	K57615			PCB, TOC, Grain Size
	2 - 6	K57616			PCB
	2 - 6	K57617	K57616		PCB
	6 - 8	K57618			PCB
	8 - 12	K57619		X	PCB
	12 - 17	K57620			PCB
	17 - 20	K57621			PCB
Soil					
OCIFP-145	0 - 3	K27636			PCB, TOC, Grain Size
	3 - 6	K27637			PCB
	6 - 12	K27638			PCB
	12 - 24	K27639			PCB
	12 - 24	K27640	K27639		PCB
	24 - 34	K27641			PCB
	34 - 42	K27642		X	PCB
	42 - 44.5	K27643			PCB
OCIFP-147	0 - 6	K27644			PCB, TOC, Grain Size
OCIFP-148	0 - 6	K27649			PCB, TOC, Grain Size
	6 - 12	K27650			PCB
	12 - 24	K27651			PCB
	24 - 36	K27652			PCB
	36 - 48	K27653			PCB
	36 - 48	K27654	K27653		PCB
	48 - 60	K27655		X	PCB
	60 - 70	K27656			PCB
OCIFP-149	0 - 6	K27657			PCB, TOC, Grain Size
OCIFP-150	0 - 6	K27663			PCB, TOC, Grain Size
OCIFP-152	0 - 6	K27667			PCB, TOC, Grain Size
OCIFP-153	0 - 6	K27673			PCB, TOC, Grain Size
	0 - 6	K27674	K27673		PCB, TOC
	6 - 12	K27675			PCB
	12 - 24	K27676			PCB
	24 - 36	K27677			PCB
	36 - 48	K27678			PCB
	48 - 50	K27679			PCB
	50 - 57	K27680			PCB
	57 - 61	K27681			PCB
OCIFP-154	0 - 6	K27682			PCB, TOC, Grain Size
	0 - 6	K27683	K27682		Grain Size
	6 - 12	K27684			PCB
	12 - 24	K27685			PCB
	12 - 24	K27686	K27685		PCB
	24 - 32	K27687		X	PCB
	32 - 36	K27688			PCB
	36 - 42	K27689			PCB

See Notes on Page 5.

Table 3 - Area 2/Otsego City Impoundment 2012 Supplemental Investigation - Sample Information

Location	Sample Interval (inches)	Sample ID	Duplicated Sample ID	MS/MSD	Analysis
Soil (Cont.)					
OCIFP-135	0 - 6	K27690			PCB, TOC, Grain Size
	6 - 12	K27691			PCB
	12 - 24	K27692			PCB
	12 - 24	K27693	K27692		PCB
	24 - 36	K27694		X	PCB
	36 - 48	K27695			PCB
	48 - 60	K27696			PCB
	60 - 64	K27697			PCB
OCIFP-136	0 - 6	K27698			PCB, TOC, Grain Size
	6 - 12	K27699			PCB
	12 - 24	K27700			PCB
	24 - 36	K27701			PCB
	36 - 48	K27702			PCB
	48 - 60	K27703			PCB
OCIFP-137	0 - 6	K27704			PCB, TOC, Grain Size
	6 - 12	K27705			PCB
	12 - 17	K27706			PCB
	17 - 24	K27707			PCB
	24 - 36	K27708			PCB
OCIFP-140	0 - 6	K27709			PCB, TOC, Grain Size
	6 - 12	K27710			PCB
	12 - 20	K27711		X	PCB
	20 - 24	K27712			PCB
	24 - 36	K27713			PCB
	24 - 36	K27714	K27713		PCB
	36 - 43	K27715			PCB
OCIFP-138	0 - 6	K27716			PCB, TOC, Grain Size
	6 - 12	K27717			PCB
	12 - 24	K27718			PCB
	24 - 32	K27719			PCB
	32 - 36	K27720			PCB
	36 - 48	K27721			PCB
	48 - 60	K27722			PCB
	60 - 67	K27723			PCB
OCIFP-139	0 - 6	K27724			PCB, TOC, Grain Size
	6 - 12	K27725			PCB
	12 - 24	K27726		X	PCB
	24 - 32	K27727			PCB
	32 - 36	K27728			PCB
	36 - 41	K27729			PCB
	41 - 47	K27730			PCB
	41 - 47	K27731	K27730		PCB

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Table 3 - Area 2/Otsego City Impoundment 2012 Supplemental Investigation - Sample Information

Location	Sample Interval (inches)	Sample ID	Duplicated Sample ID	MS/MSD	Analysis
Soil (Cont.)					
OCIFP-141	0 - 6	K27732			PCB, TOC, Grain Size
	6 - 12	K27733			PCB
	12 - 24	K27734			PCB
	24 - 29	K27735			PCB
	29 - 36	K27736			PCB
	36 - 48	K27737			PCB
	48 - 60	K27738			PCB
	60 - 68	K27739			PCB
OCIFP-142	0 - 6	K27740			PCB, TOC, Grain Size
	6 - 12	K27741			PCB
	12 - 24	K27742			PCB
	24 - 36	K27743			PCB
	36 - 48	K27744			PCB
	48 - 60	K27745			PCB
	60 - 73	K27746			PCB
OCIFP-143	0 - 6	K27747			PCB, TOC, Grain Size
	0 - 6	K27748	K27747		Grain Size
	6 - 12	K27749			PCB
	6 - 12	K27750	K27749		PCB
	12 - 24	K27751		X	PCB
	24 - 29	K27752			PCB
	29 - 36	K27753			PCB
	36 - 48	K27754			PCB
	48 - 60	K27755			PCB
	60 - 71	K27756			PCB
OCIFP-144	0 - 6	K27757			PCB, TOC, Grain Size
OCIFP-146	0 - 6	K27764			PCB, TOC, Grain Size
OCIFP-151	0 - 6	K27770			PCB, TOC, Grain Size
	6 - 12	K27771			PCB
	12 - 24	K27772			PCB
	24 - 30	K27773			PCB
	30 - 36	K27774			PCB
	36 - 46	K27775			PCB

Notes:
MS/MSD = Matrix Spike/Matrix Spike Duplicate.
PCB = polychlorinated biphenyls.
TOC = total organic carbon.

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Table 4 - Area 2/Otsego City Impoundment 2012 Supplemental Investigation - Archived Soil Samples

Location	Sample Interval (inches)	Sample ID	Analysis
OCIFP-147	6 - 12	K27645	PCB
	12 - 24	K27646	PCB
	24 - 36	K27647	PCB
	36 - 42	K27648	PCB
OCIFP-149	6 - 12	K27658	PCB
	12 - 24	K27659	PCB
	24 - 36	K27660	PCB
	36 - 48	K27661	PCB
	48 - 55	K27662	PCB
OCIFP-150	6 - 12	K27664	PCB
	12 - 24	K27665	PCB
	24 - 36	K27666	PCB
OCIFP-152	6 - 12	K27668	PCB
	12 - 20	K27669	PCB
	20 - 24	K27670	PCB
	24 - 36	K27671	PCB
	36 - 50.5	K27672	PCB
OCIFP-144	6 - 12	K27758	PCB
	12 - 24	K27759	PCB
	24 - 36	K27760	PCB
	36 - 42	K27761	PCB
	42 - 48	K27762	PCB
	48 - 56	K27763	PCB
OCIFP-146	6 - 12	K27765	PCB
	12 - 24	K27766	PCB
	24 - 36	K27767	PCB
	36 - 48	K27768	PCB
	48 - 61	K27769	PCB

Notes:

1. The archived subsurface samples are retained in frozen storage for potential future analysis based on the PCB results in the surface samples.

PCB = polychlorinated biphenyl.

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Table 5 - Area 3/Former Otsego Impoundment 2012 Reconnaissance - Sediment Probing Information

Date Collected	Location ID	Water Depth (feet)	Probe Depth (feet)	Penetration (feet)	Recovery (feet)	Notes
6/25/2012	ORSED-01	-	-	4.7	1.0	silt over gravel, hard bottom
6/26/2012	ORSED-02	-	-	7.0	2.4	top foot-clayey silt with trace organics, no hard bottom
	ORSED-03	-	-	-	-	CDM core (outer extent of Pickerel Weed Wetland area)
	ORSED-04	-	-	4.0	3.1	
	ORSED-05	-	-	2.0	1.3	
	ORSED-06	-	-	5.0	3.0	
6/28/2012	ORSED-07	-	-	-	-	dark grey color, sandy silt, no recovery (3 attempts)
	ORSED-08	-	-	2.2	1.4	deposit at mouth of small inflow channel - sandy elsewhere
	ORSED-09	-	-	3.3	0.8	area extends 15 - 20 feet from bank - potential bank collapse rather than sediment deposit
	ORSED-10	-	-	2.4	1.8	-
	ORSED-11	-	-	3.3	1.8	area extends approximately 20 feet from bank and approximately 50 feet downstream from downed tree
	ORSED-12	-	-	-	2.3	CDM core
	ORSED-13	-	-	5.0	3.3	located approximately 8 feet from ORSED-12
	ORSED-14	-	-	3.8	1.5	located across the channel from the Pine Creek outflow
6/29/2012	ORSED-15	-	-	-	7.0	
	ORSED-16	-	-	3.0	2.0	
	ORSED-17	-	-	2.0	1.7	
	ORSED-18	-	-	-	-	CDM core, gray materials (clay) identified at 2 to 2.5 feet below ground surface
	ORSED-19	-	-	2.0	1.5	sediment area around ORSED-18 and ORSED-19 is backwater area extending upstream from the river on the south side and has berms on either side
	OSED-05	7.0	4.6	4.1	3.0	Pine Creek Cores[1]
	OSED-06	7.8	2.2	3.2	2.7	
	OSED-07	7.9	-	2.2	2.0	
	OSED-08	8.2	-	5.0	4.0	
	OSED-09	3.6	2.4	2.9	2.9	
	OSED-10	9.7	-	3.8	2.9	

Note:
1. Cores OSED-01 through OSED-04 will be collected from Pine Creek during the week of July 9. All Pine Creek cores will be processed during the same week.

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Table 6 - Area 3/Former Otsego Impoundment 2012 Reconnaissance - Floodplain Assessment

Date	Location ID	Method[1]	Water BGS (inches)	Penetration[2] (inches)	Recovery[3] (inches)	Floodplain Type	Vegetation Description / Notes
6/26/2012	ORFP-01	Hand Auger	-	32	32	Forest Upland	confirmed outer boundary of focused reconnaissance area
	ORFP-02	Hand Auger	29	30	30	Upland Field	pokeweed, box elder, stinging nettle, reed canary grass
	ORFP-03	Hand Auger	24	36	36	Wet Meadow Wetland	narrow leaf cattail, jewel weed, joe pye weed
	ORFP-04	Hand Auger+Lexan	24	114	37	Emergent Wetland	reed canary grass
	ORFP-05	Hand Auger	25	30	30	Terrace	joe pye weed, stinging nettles, ash, box elder, emergent marsh/wet meadow (on terrace, likely groundwater)
	ORFP-06	Hand Auger	-	32	32	Terrace	
	ORFP-07	Hand Auger	30	36	36	Perched Wetland	scrub shrub, arrow arum, joe pye weed, jewel reed, dogwood, cattail
	ORFP-08	Hand Auger	39	42	42	Open Field	vegetation ground ivy (mowed), some trees
	ORFP-09	Hand Auger+Lexan	57	122	44	Young Forest	mulberry, reed canary grass, dogwood, ragweed, stinging nettle, smart week, silver maple
	ORFP-10	Hand Auger+Lexan	48	120	56	Field/Young Forest	green ash, great ragweed, yellow avens, jewel weed, stinging nettle, garlic mustard
	ORFP-11	Hand Auger+Lexan	-	120	59	Wet Meadow	rice cut grass, cattails on fringe around northern part of previous channel area
	ORFP-12	Hand Auger+Lexan	36	113	60	-	
6/27/2012	ORFP-13	Hand Auger+Lexan	-	111	61	Young Forest	shrub, dogwood, black walnut, reed canary grass, box elder
	ORFP-14	Hand Auger+Lexan	29	118	56	Wet Meadow	reed canary grass, cattails (micro-habitat)
	ORFP-15	Hand Auger+Lexan	36	114	66	Forest Upland	close to wet forest, box elder, hackberry, locust, green ash
	ORFP-16	Hand Auger+Lexan	42	105	55	Young Forest	box elder, stinging nettle, reed canary grass, green ash
	ORFP-17	Hand Auger+Lexan	52	97	52	Mixed Field/Forest	mesic forest (almost wet), locust, box elder, elm, green ash, jewel weed, ragweed, stinging nettle
	ORFP-18	Hand Auger+Lexan	41	98	56	Upland Field	reed canary grass, thistle, goldenrod
	ORFP-19	Hand Auger+Lexan	43	45	45	Mesic Forest	black walnut, box elder, burdock, jewel weed, poke weed, catnip
	ORFP-20	Hand Auger+Lexan	43	50	50	In Channel	strawberry, garlic mustard, jewel weed, green ash seedlings, violet, blackberry
	ORFP-21	Hand Auger+Lexan	48	52	52	In Channel	green ash seedlings, jewel weed, cone flower
	OFFP-22	Hand Auger+Lexan	6	74	39	Emergent Wetland	narrow leaf cattail, jewel weed, willows, joe pye weed
	ORFP-23	Hand Auger+Lexan	12	79	65	Emergent Wetland	bur-reed, narrow leaf cattail, multi-flora rose

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Table 6 - Area 3/Former Otsego Impoundment 2012 Reconnaissance - Floodplain Assessment

Date	Location ID	Method[1]	Water BGS (inches)	Penetration[2] (inches)	Recovery[3] (inches)	Floodplain Type	Vegetation Description / Notes
6/28/2012	ORFP-24	Hand Auger	-	40	40	Floodplain Forest	green ash, silver maple, red bud, reed canary grass, goldenrod, white avens
	ORFP-25	Hand Auger	-	30	30	Floodplain Forest	grey birch, ironwood, green ash, wood nettle, white avens
	ORFP-26	Hand Auger+Lexan	32	83	48	Emergent Wetland	narrow leaf and broad leaf cattail, stinging nettle, sensitive fern
	ORFP-27	Hand Auger+Lexan	30	82	51	Transitional Floodplain	goldenrod, aster, willow, sycamore, silver maple
	ORFP-28	Hand Auger	31	43	43	Emergent Wetland	narrow leaf cattail, willow, arrow arum, sensitive fern
	ORFP-29	Hand Auger+Lexan	-	92	52	Floodplain Forest	box elder, silver maple, green ash, reed canary grass
	ORFP-30	-	-	-	-	-	top of berm defining study area boundary
	ORFP-31	Hand Auger	32	43	43	Emergent Wetland	narrow leaf cattail, aster, jewel weed, joe pye reed
	ORFP-32	-	-	-	-	-	top of berm defining study area boundary
	ORFP-33	-	-	-	-	-	point defining study area boundary
	ORFP-34	Hand Auger	-	20	20	Floodplain Forest	silver maple, black walnut, choke cherry, dogwood, blackberry
	ORFP-35	Hand Auger	-	10	10	Floodplain Forest	willow, walnut, dogwood, reed canary grass, hickory
	ORFP-36	Hand Auger	24	34	34	Floodplain Field	reed canary grass, stinging nettle
	ORFP-37	Hand Auger+Lexan	11	56	32	Emergent Wetland	narrow leaf cattail

Notes:

1. Cores were collected using a combination of hand auger and 2-inch Lexan ® tubing.
2. Penetration depths for hand auger and lexan method include a total penetration using both methods.
3. Recovery depths for hand auger and lexan method include a total recovery using both methods.

BGS = below ground surface.

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Table 7 - Area 3/Former Otsego Impoundment 2012 Reconnaissance - Core Descriptions

Location ID	Date Collected[1]	Core Top	Core Bottom	Core Units	Core Description
ORSED-01	6/25/2012	0	12	inches	grey brown clayey silt, slight odor, trace organics, degraded leaf/root material
ORSED-02	6/26/2012	0	12	inches	dark grey brown silty clay
		12	29	inches	dark grey silty clay
ORSED-04	6/26/2012	0	3	inches	fine sand
		3	23	inches	medium coarse sand
		23	27	inches	dark grey silty clay
		27	37	inches	fine sand, trace silt
ORSED-05	6/26/2012	0	4	inches	silty sand
		4	10	inches	grey silty clay, slight odor
		10	13	inches	grey silty clay, some sand
		13	16	inches	brown sandy clay
ORSED-06	6/26/2012	0	18	inches	medium coarse sand
		18	35	inches	grey silty clay
		35	36	inches	grey brown silty clay
ORFP-01	6/26/2012	0	32	inches	sand, some gravel
ORFP-02	6/26/2012	0	27	inches	grey brown clay
		27	30	inches	orange brown sand
ORFP-03	6/26/2012	0	34	inches	dark grey clay (black)
		34	36	inches	sand
ORFP-04	6/26/2012	0	10	inches	grey organic silt with decaying organic matter
		10	42	inches	grey silt, odor
ORFP-05	6/26/2012	0	20	inches	dark brown to black silty clay loam
		20	30	inches	light brown silty sand
ORFP-06	6/26/2012	0	8	inches	black silty clay
		8	30	inches	brown silty clay
		30	32	inches	tan clay
ORFP-07	6/26/2012	0	36	inches	black organic silt, moist
ORFP-08	6/26/2012	0	27	inches	grey brown clay loam
		27	42	inches	brown silty sand, moist
ORFP-09	6/26/2012	0	44	inches	grey brown clay loam

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Table 7 - Area 3/Former Otsego Impoundment 2012 Reconnaissance - Core Descriptions

Location ID	Date Collected[1]	Core Top	Core Bottom	Core Units	Core Description
ORFP-10	6/26/2012	0	42	inches	grey brown clay loam
		42	55	inches	grey brown clay loam, slight odor
		55	56	inches	sand
ORFP-11	6/26/2012	0	2	inches	brown detritus
		2	42	inches	grey silty clay
		42	59	inches	dark grey silty clay, trace shells
ORFP-12	6/26/2012	0	47	inches	light grey silty clay
		47	60	inches	dark grey clayey silt, moderately decomposed organics
ORFP-13	6/27/2012	0	25	inches	grey clay loam
		25	45	inches	grey silty clay with some brown silty clay
		45	47	inches	grey silty clay
		47	55	inches	dark grey to black clayey silt, slight odor
		55	59	inches	grey clayey silt with some fine sand
		59	61	inches	grey silty fine sand
ORFP-14	6/27/2012	0	36	inches	grey brown clay loam, slight odor
		36	40	inches	grey clayey silt, no noticeable odor
		40	43	inches	grey clayey silt, some odor
		43	54	inches	dark grey clayey silt, slight odor
		54	56	inches	organic silt
ORFP-15	6/27/2012	0	23	inches	grey brown clay
		23	36	inches	brown silty medium sand
		36	40	inches	brown silty medium sand
		40	54	inches	grey brown silty sand, some gravel
		54	56	inches	multi color gravel, wood and gravel
		56	64	inches	brown silty sand
		64	66	inches	cobble
ORFP-16	6/27/2012	0	22	inches	grey clayey silt, slight odor
		22	35	inches	brown silty sand, no odor
		35	42	inches	dark grey sandy silt
		42	46	inches	dark grey silty sand
		46	58	inches	dark grey clayey silt, slight odor

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Table 7 - Area 3/Former Otsego Impoundment 2012 Reconnaissance - Core Descriptions

Location ID	Date Collected[1]	Core Top	Core Bottom	Core Units	Core Description
ORFP-16 (Cont.)	6/27/2012	58	59	inches	dark grey sandy silt with more organics
		59	65	inches	dark grey sand silt
ORFP-17	6/27/2012	0	42	inches	brown silty clay, no odor
		42	45	inches	brown silty clay
		45	51	inches	grey brown silty clay, no odor
		51	52	inches	dark brown to black sandy silt, some small gravel
ORFP-18	6/27/2012	0	7	inches	grey silty clay, slight odor
		7	9	inches	sand lens, brown fine sand
		9	15	inches	grey silty clay, slight odor
		15	16	inches	sand lens, brown fine sand
		16	26	inches	grey silty clay
		26	30	inches	brown fine sand
		30	42	inches	brown sandy silt
		42	44	inches	brown clayey silt
		44	56	inches	brown sandy silt
ORFP-19	6/27/2012	0	24	inches	grey brown clayey silt
		24	45	inches	brown clayey silt, trace sand, trace organics (roots)
ORFP-20	6/27/2012	0	46	inches	brown clayey silt, slight odor, trace organics
		46	49	inches	brown clayey silt
		49	50	inches	brown sandy silt
ORFP-21	6/27/2012	0	44	inches	grey silty clay, slight odor
		44	50	inches	dark grey clayey silt
		50	52	inches	dark brown clayey silt, some small gravel
ORFP-22	6/27/2012	0	8	inches	brown peat, lens of grey clayey silt at 8"
		8	33	inches	dark grey clayey silt, moderate odor
		33	39	inches	brown silty sand
ORFP-23	6/27/2012	0	20	inches	black to dark brown peat with some sand
		20	29	inches	brown small to medium gravel
		29	35	inches	grey sand and gravel
		35	43	inches	decaying organics, some fine gravel
		43	57	inches	grey silty sand, trace fine gravel
		57	65	inches	brown peat material

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Location ID	Date Collected[1]	Core Top	Core Bottom	Core Units	Core Description
ORFP-24	6/28/2012	0	16	inches	brown clayey silt, trace organics (roots)
		16	20	inches	brown sandy silt
		20	27	inches	brown clayey silt, trace organics
		27	33	inches	grey to brown clayey silt, some brown sandy silt
		33	40	inches	grey to brown sandy silt, some gravel
ORFP-25	6/28/2012	0	19	inches	dark brown clayey silt (dry)
		19	24	inches	brown silty sand
		24	30	inches	some gravel with depth
ORFP-26	6/28/2012	0	37	inches	dark brown peat material, some clayey silt
		37	43	inches	dark brown peat
		43	45	inches	brown clayey silt
		45	48	inches	grey sandy silt
ORFP-27	6/28/2012	0	23	inches	grey silty clay
		23	35	inches	dark brown peat
		35	40	inches	dark brown peat
		40	42	inches	brown clayey silt
		42	51	inches	grey silty sand with some gravel, trace shell fragments
ORFP-28	6/28/2012	0	23	inches	grey clayey silt intermixed with peat
		23	30	inches	brown peat
		30	43	inches	brown silty sand
ORFP-29	6/28/2012	0	28	inches	grey brown silty clay, some organics, pockets of brown sand, no odor
		28	43	inches	grey brown sandy silt
		43	45	inches	very fine sand
		45	50	inches	brown clayey silt
		50	52	inches	brown decaying organic matter (wood)
ORFP-31	6/28/2012	0	13	inches	grey brown clayey silt
		13	29	inches	grey clayey silt
		29	43	inches	dark grey to black clayey silt, trace sand
ORFP-34	6/28/2012	0	14	inches	brown very fine sand, some gravel, some cobble
		14	20	inches	changing to light brown very fine to medium sand, some gravel
ORFP-35	6/28/2012	0	10	inches	brown very fine sand, cobble below

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Location ID	Date Collected[1]	Core Top	Core Bottom	Core Units	Core Description
ORFP-36	6/28/2012	0	3	inches	grey brown clayey silt, some root matter
		3	8	inches	grey clayey silt with slight odor and some root material
		8	13	inches	brown fine to coarse sand
		13	18	inches	grey clayey silt, no odor
		18	29	inches	grey brown sandy silt
		29	34	inches	grey brown clayey silt, some sand, some fine to medium gravel
ORFP-37	6/28/2012	0	13	inches	grey brown peat with some clayey silt, no odor
		13	19	inches	grey clayey silt, slight odor
		19	23	inches	grey clayey silt with silty sand and fine to medium gravel
		23	29	inches	grey clayey silt, slight odor
		29	32	inches	grey brown sandy silt with fine to coarse gravel
ORSED-08	6/28/2012	0	2	inches	dark grey clayey silt, some fine sand
		2	17	inches	dark grey clayey silt, slight odor
ORSED-09	6/28/2012	0	9	inches	dark grey clayey silt, odor
		9	10	inches	dark grey clayey silt, odor, some fine gravel
ORSED-10	6/28/2012	0	10	inches	medium to coarse sand, some fine gravel, pebble
		10	22	inches	grey brown medium to coarse sand, trace silt, trace fine gravel
ORSED-11	6/28/2012	0	13	inches	dark grey medium to coarse sand, some silt, coal piece at 13"
		13	20	inches	dark grey fine to coarse sand
		20	22	inches	dark grey sandy silt, no odor
ORSED-12	6/28/2012	0	12	inches	brown fine sand, some silt
		12	18	inches	dark grey clayey silt, odor, sheen
		18	24	inches	brown clayey silt
		24	28	inches	silty sand
ORSED-13	6/28/2012	0	20	inches	grey brown sandy silt
		20	26	inches	dark grey clayey silt, some shells, degrading organics (leaves), moderate odor, sheen
		26	40	inches	brown sandy silt
ORSED-14	6/28/2012	0	9	inches	dark grey sandy silt
		9	17.5	inches	dark grey silty sand, trace organics (wood), moderate odor
		17.5	18	inches	grey clayey silt

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Location ID	Date Collected[1]	Core Top	Core Bottom	Core Units	Core Description
ORSED-15	6/29/2012	0	2	inches	brown silty sand
		2	7	inches	grey brown silty sand, coarse material along bank
ORSED-16	6/29/2012	0	7	inches	grey brown silty sand
		7	17	inches	grey fine silty sand
		17	24	inches	dark grey silty sand
ORSED-17	6/29/2012	0	2	inches	grey brown silty sand
		2	10	inches	dark grey to black sandy silt, some organics
		10	14	inches	brown silty sand
		14	20	inches	dark grey to black clayey silt, some organics, no odor
ORSED-19	6/29/2012	0	6	inches	dark grey to black degrading organic materials, high silt content
		6	12	inches	dark grey to black silty sand
		12	18	inches	grey brown silty sand, some coarse sand to fine gravel

Note:
1. Reconnaissance cores were collected and described in the field.

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SDG	Location	Sample Interval (inches)	Sample ID	Sample Matrix	Duplicated Sample ID	MS/MSD	Analysis	Date Received
11176	OCISED-107	0 - 2	K57529	Sediment			PCB, TOC, Grain Size	6/15/2012
		2 - 6	K57530	Sediment			PCB	6/15/2012
		6 - 12	K57531	Sediment			PCB	6/15/2012
		12 - 24	K57532	Sediment			PCB	6/15/2012
		24 - 35	K57533	Sediment			PCB	6/15/2012
	OCISED-106	0 - 2	K57534	Sediment			PCB, TOC, Grain Size	6/15/2012
		2 - 6	K57535	Sediment			PCB	6/15/2012
		6 - 12	K57536	Sediment			PCB	6/15/2012
		12 - 16	K57537	Sediment			PCB	6/15/2012
		16 - 24	K57538	Sediment			PCB	6/15/2012
		24 - 36	K57539	Sediment			PCB	6/15/2012
		36 - 48	K57540	Sediment			PCB	6/15/2012
		48 - 53	K57541	Sediment			PCB	6/15/2012
	OCISED-110	0 - 2	K57542	Sediment			PCB, TOC, Grain Size	6/15/2012
		2 - 6	K57543	Sediment			PCB	6/15/2012
		6 - 12	K57544	Sediment			PCB	6/15/2012
		12 - 24	K57545	Sediment			PCB	6/15/2012
		24 - 36	K57546	Sediment			PCB	6/15/2012
		36 - 40	K57547	Sediment			PCB	6/15/2012
	OCISED-116	48 - 60	K57564	Sediment		X	PCB	6/15/2012
11181	OCISED-104	0 - 2	K57548	Sediment			PCB, TOC, Grain Size	6/15/2012
		2 - 6	K57549	Sediment			PCB	6/15/2012
		6 - 12	K57550	Sediment			PCB	6/15/2012
		12 - 24	K57551	Sediment			PCB	6/15/2012
		24 - 37	K57552	Sediment			PCB	6/15/2012
		37 - 48	K57553	Sediment			PCB	6/15/2012
		48 - 60	K57554	Sediment			PCB	6/15/2012
		60 - 72	K57555	Sediment			PCB	6/15/2012
		72 - 77	K57556	Sediment			PCB	6/15/2012

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SDG	Location	Sample Interval (inches)	Sample ID	Sample Matrix	Duplicated Sample ID	MS/MSD	Analysis	Date Received
11181 (Cont.)	OCISED-116	0 - 2	K57557	Sediment			PCB, TOC, Grain Size	6/15/2012
		2 - 6	K57558	Sediment			PCB	6/15/2012
		6 - 12	K57559	Sediment			PCB	6/15/2012
		12 - 24	K57560	Sediment			PCB	6/15/2012
		24 - 36	K57561	Sediment			PCB	6/15/2012
		24 - 36	K57562	Sediment	K57561		PCB	6/15/2012
		36 - 48	K57563	Sediment			PCB	6/15/2012
		60 - 64	K57565	Sediment			PCB	6/15/2012
	OCISED-109	0 - 2	K57566	Sediment			PCB, TOC, Grain Size	6/15/2012
		2 - 6	K57567	Sediment			PCB	6/15/2012
		12 - 24	K57570	Sediment		X	PCB	6/15/2012
11183	OCISED-109	6 - 12	K57568	Sediment			PCB	6/18/2012
		6 - 12	K57569	Sediment	K57568		PCB	6/18/2012
		24 - 36	K57571	Sediment			PCB	6/18/2012
		36 - 48	K57572	Sediment			PCB	6/18/2012
		48 - 61	K57573	Sediment			PCB	6/18/2012
	OCISED-108	0 - 2	K57574	Sediment			PCB, TOC, Grain Size	6/18/2012
		2 - 6	K57575	Sediment			PCB	6/18/2012
		6 - 12	K57576	Sediment			PCB	6/18/2012
		12 - 17	K57577	Sediment			PCB	6/18/2012
		17 - 21	K57578	Sediment			PCB	6/18/2012
		21 - 24	K57579	Sediment			PCB	6/18/2012
		24 - 36	K57580	Sediment			PCB	6/18/2012
		36 - 40	K57581	Sediment			PCB	6/18/2012
	OCISED-111	0 - 2	K57582	Sediment			PCB, TOC, Grain Size	6/18/2012
		2 - 8	K57583	Sediment			PCB	6/18/2012
		8 - 12	K57584	Sediment			PCB	6/18/2012
		12 - 20	K57585	Sediment			PCB	6/18/2012
		12 - 20	K57586	Sediment	K57585		PCB	6/18/2012
		20 - 24	K57587	Sediment			PCB	6/18/2012
		28 - 36	K57589	Sediment		X	PCB	6/18/2012

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SDG	Location	Sample Interval (inches)	Sample ID	Sample Matrix	Duplicated Sample ID	MS/MSD	Analysis	Date Received
11203	OCIFP-135	24 - 36	K27694	Soil		X	PCB	6/18/2012
	OCIFP-137	24 - 36	K27708	Soil			PCB	6/18/2012
	OCIFP-140	0 - 6	K27709	Soil			PCB, TOC, Grain Size	6/18/2012
		6 - 12	K27710	Soil			PCB	6/18/2012
		20 - 24	K27712	Soil			PCB	6/18/2012
		24 - 36	K27713	Soil			PCB	6/18/2012
		24 - 36	K27714	Soil	K27713		PCB	6/18/2012
		36 - 43	K27715	Soil			PCB	6/18/2012
	OCIFP-138	0 - 6	K27716	Soil			PCB, TOC, Grain Size	6/18/2012
		6 - 12	K27717	Soil			PCB	6/18/2012
		12 - 24	K27718	Soil			PCB	6/18/2012
		24 - 32	K27719	Soil			PCB	6/18/2012
		32 - 36	K27720	Soil			PCB	6/18/2012
		36 - 48	K27721	Soil			PCB	6/18/2012
		48 - 60	K27722	Soil			PCB	6/18/2012
		60 - 67	K27723	Soil			PCB	6/18/2012
	OCIFP-139	0 - 6	K27724	Soil			PCB, TOC, Grain Size	6/18/2012
		6 - 12	K27725	Soil			PCB	6/18/2012
		24 - 32	K27727	Soil			PCB	6/18/2012
		32 - 36	K27728	Soil			PCB	6/18/2012
11186	OCISED-111	24 - 28	K57588	Sediment			PCB	6/19/2012
		36 - 42	K57590	Sediment			PCB	6/19/2012
	OCISED-115	0 - 2	K57591	Sediment			PCB, TOC, Grain Size	6/19/2012
		2 - 8	K57592	Sediment			PCB	6/19/2012
		8 - 12	K57593	Sediment			PCB	6/19/2012
		12 - 24	K57594	Sediment			PCB	6/19/2012
		24 - 31	K57595	Sediment			PCB	6/19/2012
	OCIFP-145	0 - 3	K27636	Soil			PCB, TOC, Grain Size	6/19/2012
		3 - 6	K27637	Soil			PCB	6/19/2012
		6 - 12	K27638	Soil			PCB	6/19/2012
		12 - 24	K27639	Soil			PCB	6/19/2012

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SDG	Location	Sample Interval (inches)	Sample ID	Sample Matrix	Duplicated Sample ID	MS/MSD	Analysis	Date Received
11186 (Cont.)	OCIFP-145 (Cont.)	12 - 24	K27640	Soil	K27639		PCB	6/19/2012
		24 - 34	K27641	Soil			PCB	6/19/2012
		34 - 42	K27642	Soil		X	PCB	6/19/2012
		42 - 44.5	K27643	Soil			PCB	6/19/2012
	OCIFP-147	0 - 6	K27644	Soil			PCB, TOC, Grain Size	6/19/2012
	OCIFP-148	0 - 6	K27649	Soil			PCB, TOC, Grain Size	6/19/2012
		6 - 12	K27650	Soil			PCB	6/19/2012
		12 - 24	K27651	Soil			PCB	6/19/2012
		24 - 36	K27652	Soil			PCB	6/19/2012
11188	OCIFP-148	36 - 48	K27653	Soil			PCB	6/19/2012
		36 - 48	K27654	Soil	K27653		PCB	6/19/2012
		48 - 60	K27655	Soil		X	PCB	6/19/2012
		60 - 70	K27656	Soil			PCB	6/19/2012
	OCIFP-149	0 - 6	K27657	Soil			PCB, TOC, Grain Size	6/19/2012
	OCIFP-150	0 - 6	K27663	Soil			PCB, TOC, Grain Size	6/19/2012
	OCIFP-152	0 - 6	K27667	Soil			PCB, TOC, Grain Size	6/19/2012
	OCIFP-153	0 - 6	K27673	Soil			PCB, TOC, Grain Size	6/19/2012
		0 - 6	K27674	Soil	K27673		PCB, TOC	6/19/2012
		6 - 12	K27675	Soil			PCB	6/19/2012
		12 - 24	K27676	Soil			PCB	6/19/2012
		24 - 36	K27677	Soil			PCB	6/19/2012
		36 - 48	K27678	Soil			PCB	6/19/2012
		48 - 50	K27679	Soil			PCB	6/19/2012
		50 - 57	K27680	Soil			PCB	6/19/2012
		57 - 61	K27681	Soil			PCB	6/19/2012
	OCIFP-154	0 - 6	K27682	Soil			PCB, TOC, Grain Size	6/19/2012
		0 - 6	K27683	Soil	K27682		Grain Size	6/19/2012
		6 - 12	K27684	Soil			PCB	6/19/2012
		12 - 24	K27685	Soil			PCB	6/19/2012
		12 - 24	K27686	Soil	K27685		PCB	6/19/2012

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SDG	Location	Sample Interval (inches)	Sample ID	Sample Matrix	Duplicated Sample ID	MS/MSD	Analysis	Date Received
11191	OCIFP-148	24 - 32	K27687	Soil		X	PCB	6/20/2012
		32 - 36	K27688	Soil			PCB	6/20/2012
		36 - 42	K27689	Soil			PCB	6/20/2012
	OCIFP-135	0 - 6	K27690	Soil			PCB, TOC, Grain Size	6/20/2012
		6 - 12	K27691	Soil			PCB	6/20/2012
		12 - 24	K27692	Soil			PCB	6/20/2012
		12 - 24	K27693	Soil	K27692		PCB	6/20/2012
		36 - 48	K27695	Soil			PCB	6/20/2012
		48 - 60	K27696	Soil			PCB	6/20/2012
		60 - 64	K27697	Soil			PCB	6/20/2012
	OCIFP-136	0 - 6	K27698	Soil			PCB, TOC, Grain Size	6/20/2012
		6 - 12	K27699	Soil			PCB	6/20/2012
		12 - 24	K27700	Soil			PCB	6/20/2012
		24 - 36	K27701	Soil			PCB	6/20/2012
		36 - 48	K27702	Soil			PCB	6/20/2012
		48 - 60	K27703	Soil			PCB	6/20/2012
	OCIFP-137	0 - 6	K27704	Soil			PCB, TOC, Grain Size	6/20/2012
		6 - 12	K27705	Soil			PCB	6/20/2012
		12 - 17	K27706	Soil			PCB	6/20/2012
		17 - 24	K27707	Soil			PCB	6/20/2012
11204	OCIFP-140	12 - 20	K27711	Soil		X	PCB	6/20/2012
	OCIFP-139	36 - 41	K27729	Soil			PCB	6/20/2012
		41 - 47	K27730	Soil			PCB	6/20/2012
		41 - 47	K27731	Soil	K27730		PCB	6/20/2012
	OCIFP-141	0 - 6	K27732	Soil			PCB, TOC, Grain Size	6/20/2012
		6 - 12	K27733	Soil			PCB	6/20/2012
		12 - 24	K27734	Soil			PCB	6/20/2012
		24 - 29	K27735	Soil			PCB	6/20/2012
		29 - 36	K27736	Soil			PCB	6/20/2012
		36 - 48	K27737	Soil			PCB	6/20/2012
		48 - 60	K27738	Soil			PCB	6/20/2012
		60 - 68	K27739	Soil			PCB	6/20/2012

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SDG	Location	Sample Interval (inches)	Sample ID	Sample Matrix	Duplicated Sample ID	MS/MSD	Analysis	Date Received
11204 (Cont.)	OCIFP-142	0 - 6	K27740	Soil			PCB, TOC, Grain Size	6/20/2012
		6 - 12	K27741	Soil			PCB	6/20/2012
		12 - 24	K27742	Soil			PCB	6/20/2012
		24 - 36	K27743	Soil			PCB	6/20/2012
		36 - 48	K27744	Soil			PCB	6/20/2012
		48 - 60	K27745	Soil			PCB	6/20/2012
		60 - 73	K27746	Soil			PCB	6/20/2012
	OCIFP-143	0 - 6	K27747	Soil			PCB, TOC, Grain Size	6/20/2012
11205	OCIFP-139	12 - 24	K27726	Soil		X	PCB	6/20/2012
	OCIFP-143	0 - 6	K27748	Soil	K27747		Grain Size	6/20/2012
		6 - 12	K27749	Soil			PCB	6/20/2012
		6 - 12	K27750	Soil	K27749		PCB	6/20/2012
		24 - 29	K27752	Soil			PCB	6/20/2012
		29 - 36	K27753	Soil			PCB	6/20/2012
		36 - 48	K27754	Soil			PCB	6/20/2012
		48 - 60	K27755	Soil			PCB	6/20/2012
		60 - 71	K27756	Soil			PCB	6/20/2012
	OCIFP-144	0 - 6	K27757	Soil			PCB, TOC, Grain Size	6/20/2012
	OCIFP-146	0 - 6	K27764	Soil			PCB, TOC, Grain Size	6/20/2012
	OCIFP-151	0 - 6	K27770	Soil			PCB, TOC, Grain Size	6/20/2012
		6 - 12	K27771	Soil			PCB	6/20/2012
		12 - 24	K27772	Soil			PCB	6/20/2012
		24 - 30	K27773	Soil			PCB	6/20/2012
		30 - 36	K27774	Soil			PCB	6/20/2012
		36 - 46	K27775	Soil			PCB	6/20/2012
	OCISED-105	0 - 2	K57596	Sediment			PCB, TOC, Grain Size	6/20/2012
		2 - 6	K57597	Sediment			PCB	6/20/2012
		6 - 12	K57598	Sediment			PCB	6/20/2012

See Notes on Page 7.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #64, June 2012

Table 8 - Area 2/Otsego City Impoundment 2012 Supplemental Investigation - Sample Results Received in June 2012

SDG	Location	Sample Interval (inches)	Sample ID	Sample Matrix	Duplicated Sample ID	MS/MSD	Analysis	Date Received
11207	OCIFP-143	12 - 24	K27751	Soil		X	PCB	6/20/2012
	OCISED-105	12 - 20	K57599	Sediment			PCB	6/20/2012
		20 - 24	K57600	Sediment			PCB	6/20/2012
		24 - 36	K57601	Sediment			PCB	6/20/2012
		36 - 42	K57602	Sediment			PCB	6/20/2012
	OCISED-112	0 - 2	K57603	Sediment			PCB, TOC, Grain Size	6/20/2012
		2 - 6	K57604	Sediment			PCB	6/20/2012
		6 - 12	K57605	Sediment			PCB	6/20/2012
		12 - 21	K57606	Sediment			PCB	6/20/2012
		21 - 24	K57607	Sediment			PCB	6/20/2012
		24 - 28	K57608	Sediment			PCB	6/20/2012
		28 - 36	K57609	Sediment			PCB	6/20/2012
		36 - 43	K57610	Sediment			PCB	6/20/2012
		43 - 48	K57611	Sediment			PCB	6/20/2012
	OCISED-113	0 - 2	K57612	Sediment			PCB, TOC, Grain Size	6/20/2012
		2 - 6	K57613	Sediment			PCB	6/20/2012
		6 - 8.4	K57614	Sediment			PCB	6/20/2012
	OCISED-114	0 - 2	K57615	Sediment			PCB, TOC, Grain Size	6/20/2012
		2 - 6	K57616	Sediment			PCB	6/20/2012
		2 - 6	K57617	Sediment	K57616		PCB	6/20/2012
11209	OCISED-114	6 - 8	K57618	Sediment			PCB	6/21/2012
		8 - 12	K57619	Sediment		X	PCB	6/21/2012
		12 - 17	K57620	Sediment			PCB	6/21/2012
		17 - 20	K57621	Sediment			PCB	6/21/2012

Notes:
MS/MSD = Matrix Spike/Matrix Spike Duplicate.
PCB = polychlorinated biphenyls.
TOC = total organic carbon.